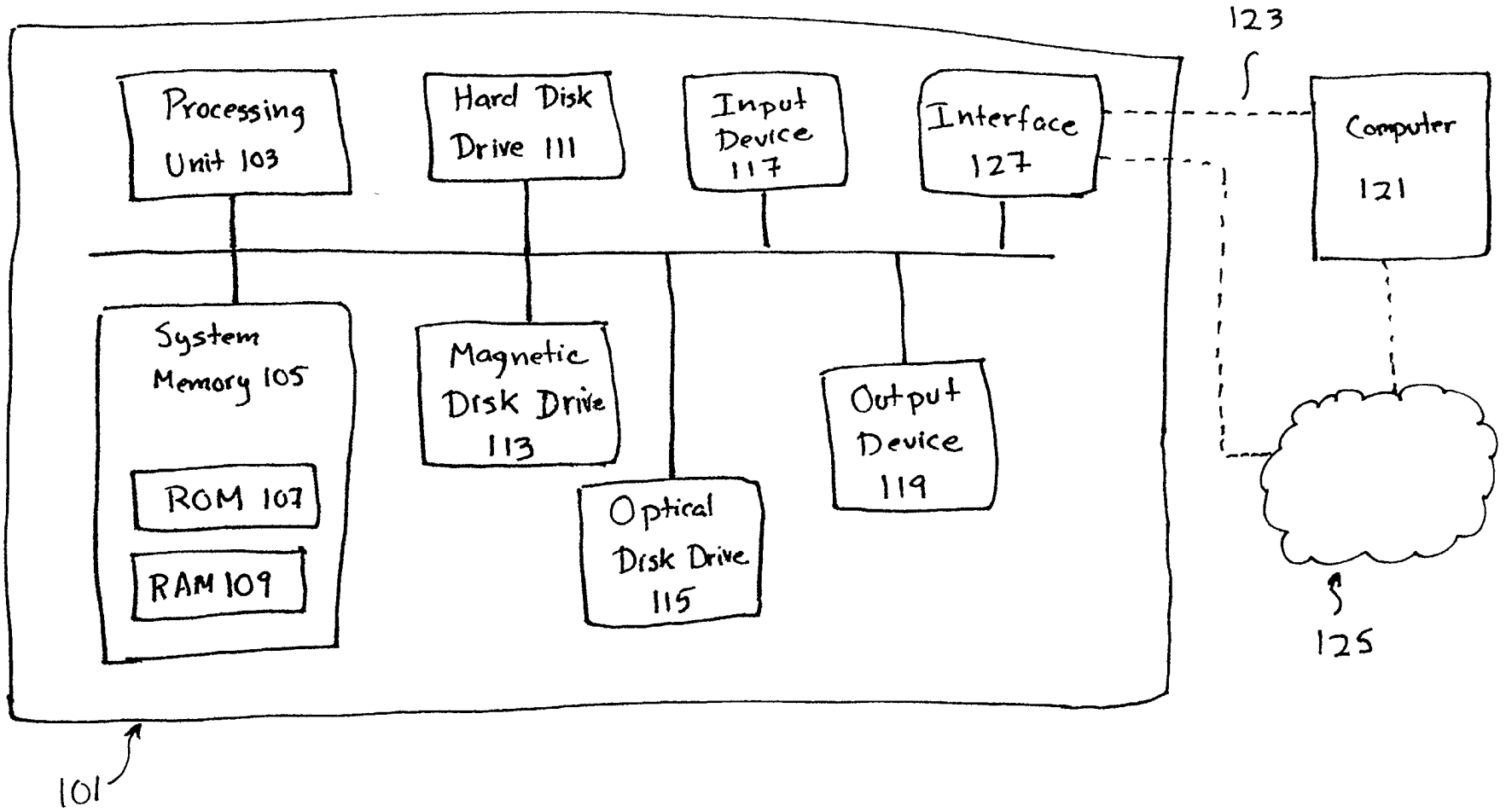
Processing Unit 103
Hard Disk Drive 111
Input Device 117
Interface 127
123
Computer 121
System Memory 105
ROM 107
RAM 109
Magnetic Disk Drive 113
Optical Disk Drive 115
Output Device 119
125
101

FIG. 1

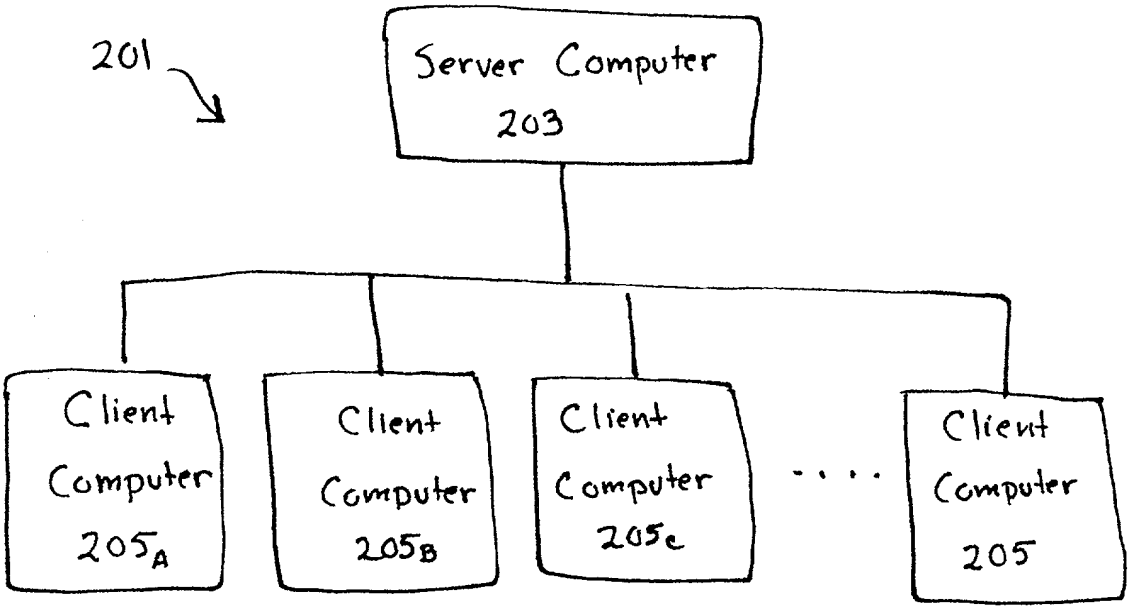

FIG. 2

Docket No. 2002-0202

20120207824800T

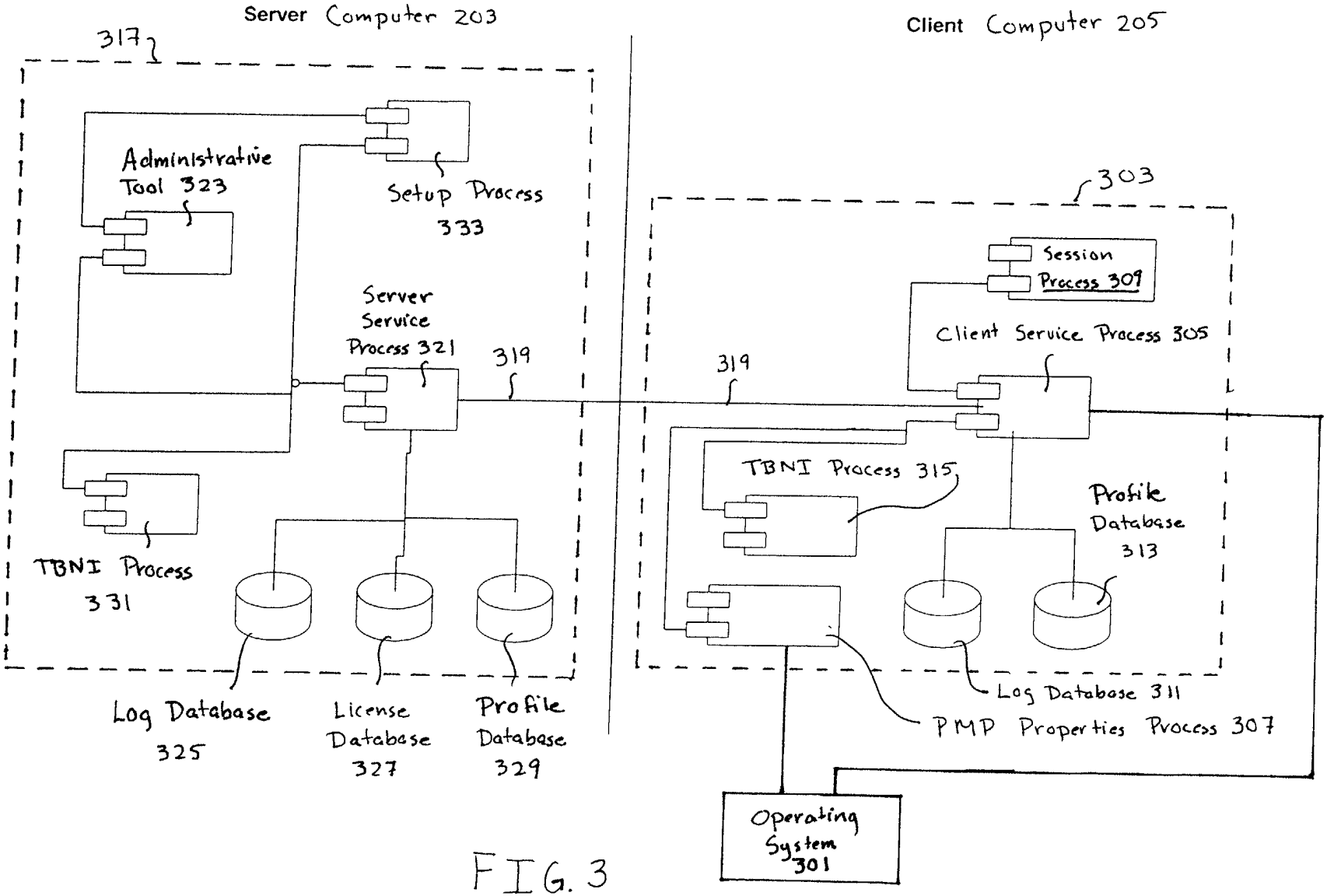

FIG. 3

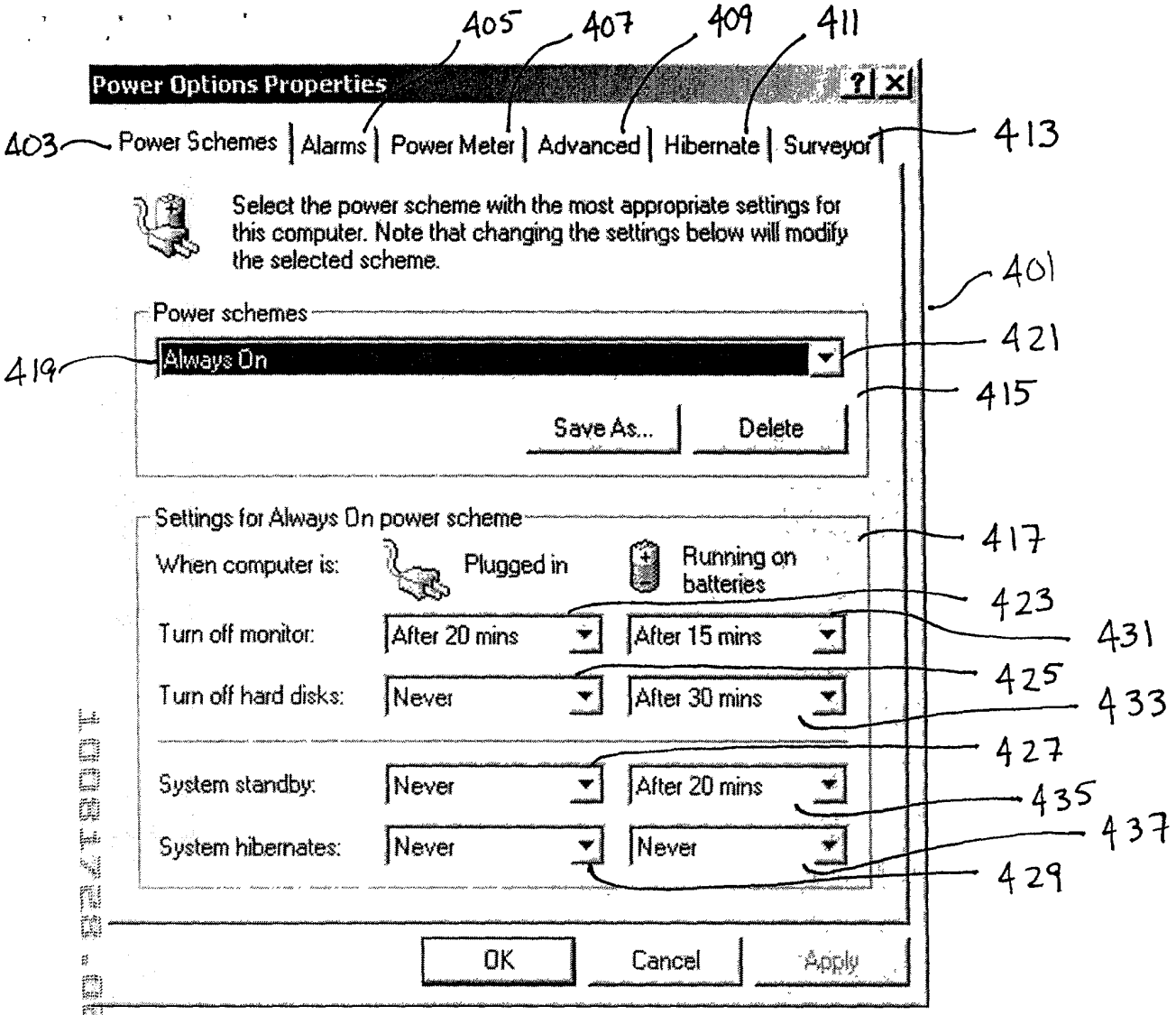
405
407
409
411
Power Options Properties
403
Power Schemes
Alarms
Power Meter
Advanced
Hibernate
Surveyor
413
Select the power scheme with the most appropriate settings for this computer. Note that changing the settings below will modify the selected scheme.
401
Power schemes
419
Always On
421
415
Save As...
Delete
Settings for Always On power scheme
417
When computer is:
Plugged in
Running on batteries
423
431
Turn off monitor:
After 20 mins
After 15 mins
425
433
Turn off hard disks:
Never
After 30 mins
427
435
System standby:
Never
After 20 mins
437
System hibernates:
Never
Never
429
OK
Cancel
Apply

FIG. 4

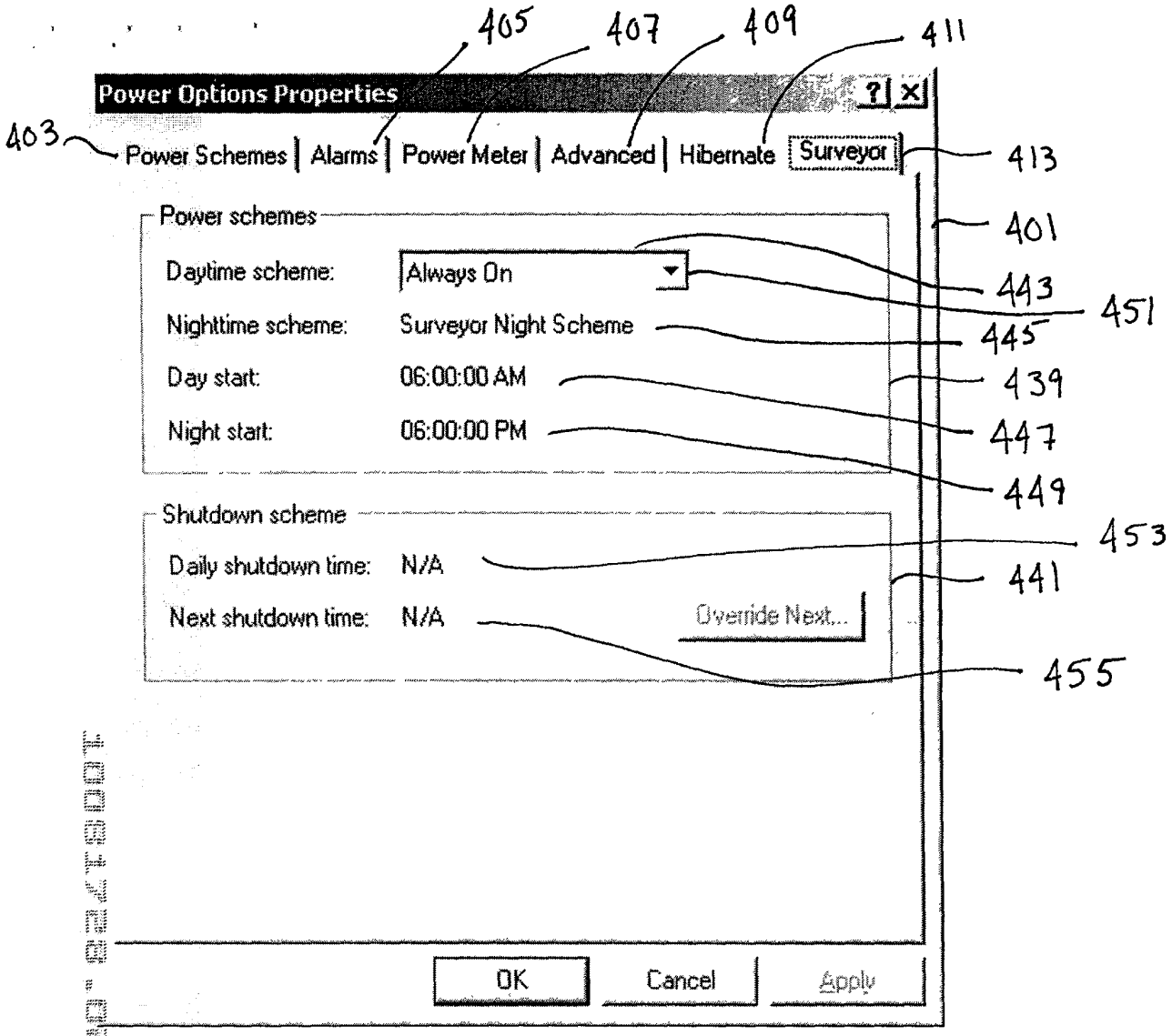
405
407
409
411
Power Options Properties
403
Power Schemes
Alarms
Power Meter
Advanced
Hibernate
Surveyor
413
401
Power schemes
Daytime scheme:
Always On
443
451
Nighttime scheme:
Surveyor Night Scheme
445
Day start:
06:00:00 AM
439
447
Night start:
06:00:00 PM
449
Shutdown scheme
453
Daily shutdown time:
N/A
441
Next shutdown time:
N/A
Override Next...
455
OK
Cancel
Apply

FIG. 5

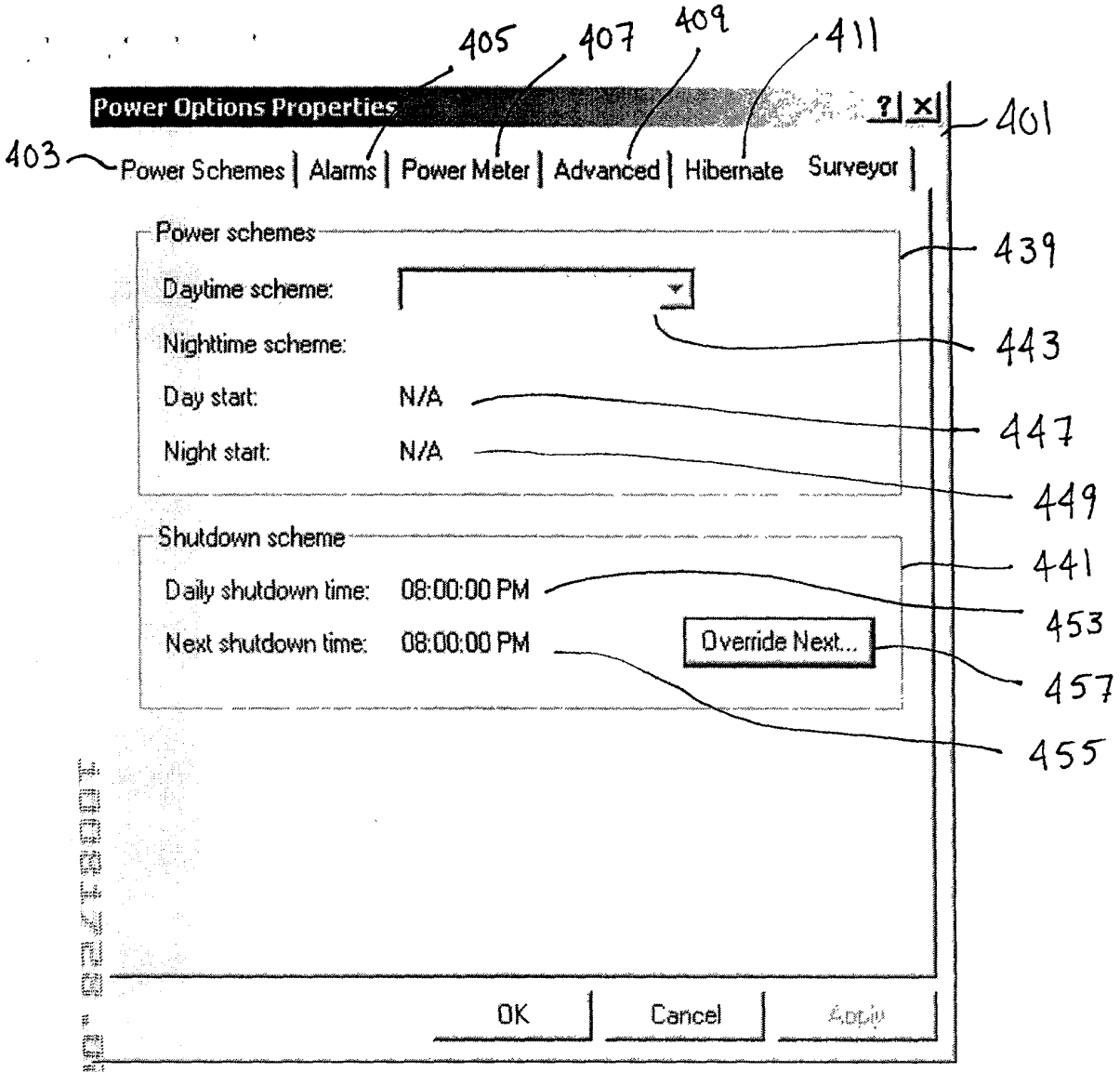
405
407
409
411
Power Options Properties
401
403
Power Schemes
Alarms
Power Meter
Advanced
Hibernate
Surveyor
Power schemes
439
Daytime scheme:
443
Nighttime scheme:
Day start:
N/A
447
Night start:
N/A
449
Shutdown scheme
441
Daily shutdown time:
08:00:00 PM
453
Next shutdown time:
08:00:00 PM
Override Next...
457
455
OK
Cancel
Apply

FIG. 6

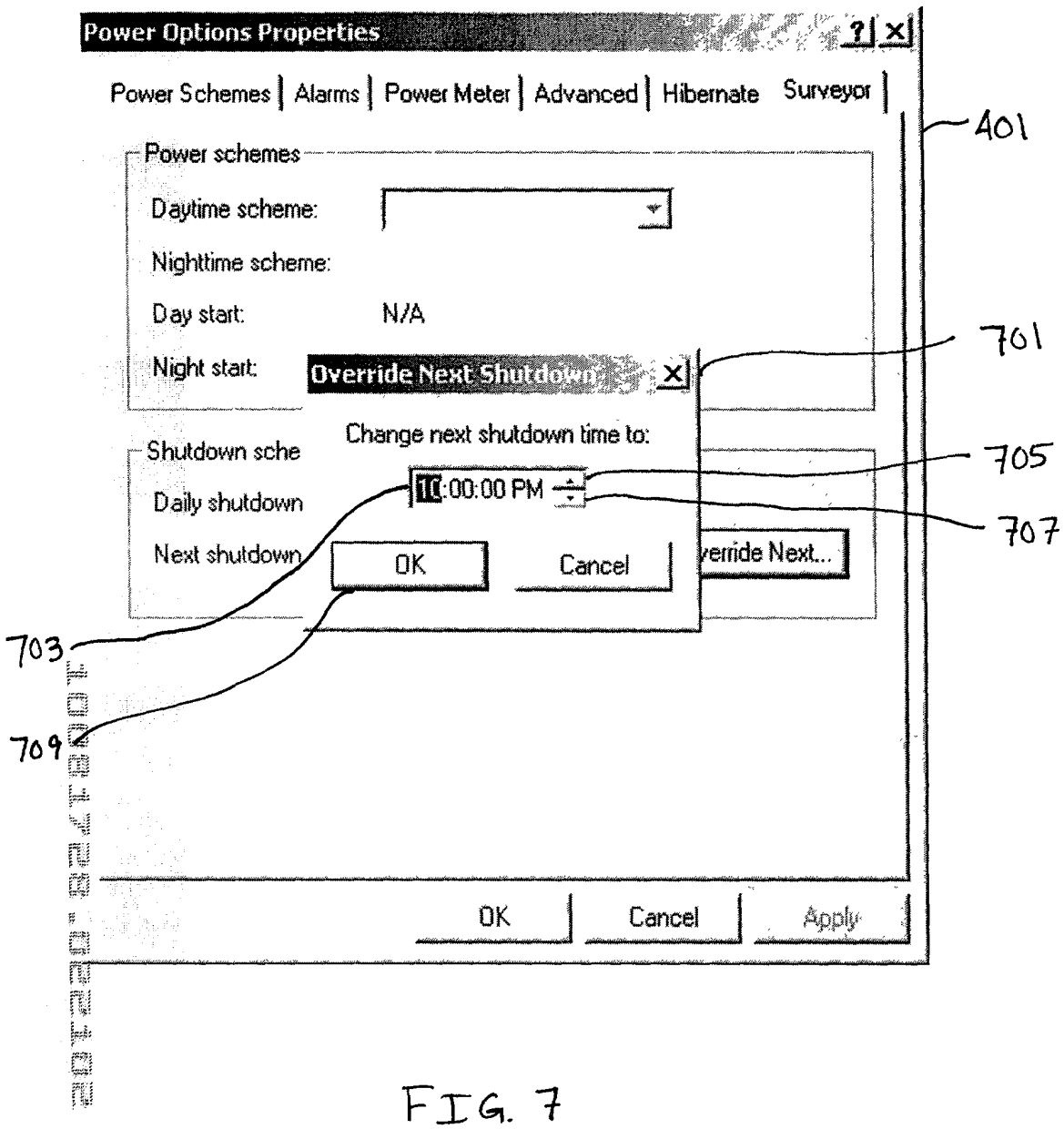
Power Options Properties
Power Schemes
Alarms
Power Meter
Advanced
Hibernate
Surveyor
401
Power schemes
Daytime scheme:
Nighttime scheme:
Day start:
N/A
Night start:
Override Next Shutdown
701
Change next shutdown time to:
Shutdown sche
Daily shutdown
Next shutdown
:00:00 PM
705
707
OK
Cancel
erride Next...
703
709
OK
Cancel
Apply

FIG. 7

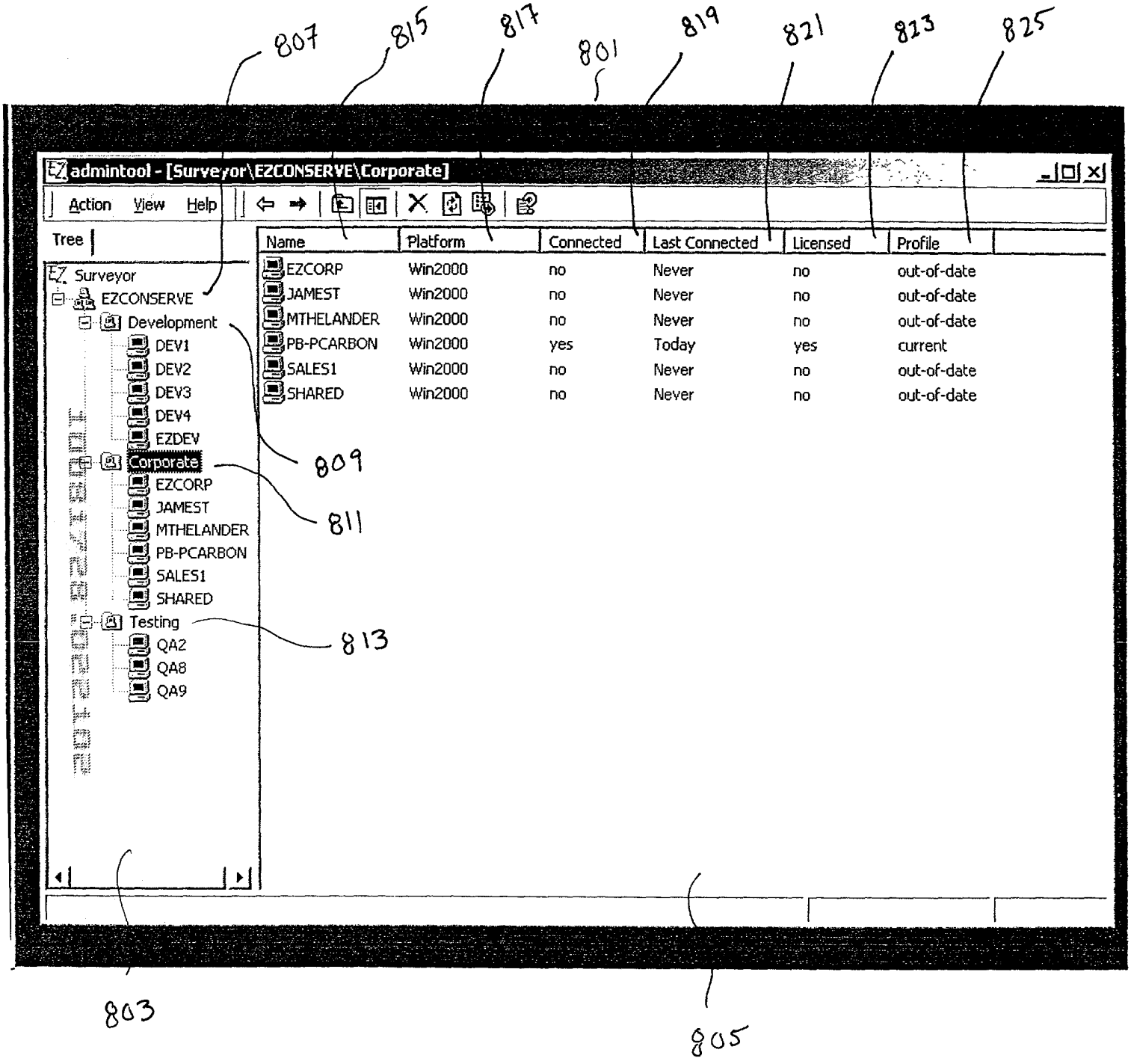
807
815
817
801
819
821
823
825
admintool - [Surveyor\EZCONSERVE\Corporate]
Action View Help
Tree
Surveyor
EZCONSERVE
Development
DEV1
DEV2
DEV3
DEV4
EZDEV
Corporate
EZCORP
JAMEST
MTHELANDER
PB-PCARBON
SALES1
SHARED
Testing
QA2
QA8
QA9
Name
Platform
Connected
Last Connected
Licensed
Profile
EZCORP Win2000 no Never no out-of-date
JAMEST Win2000 no Never no out-of-date
MTHELANDER Win2000 no Never no out-of-date
PB-PCARBON Win2000 yes Today yes current
SALES1 Win2000 no Never no out-of-date
SHARED Win2000 no Never no out-of-date
809
811
813
803
805

FIG. 8

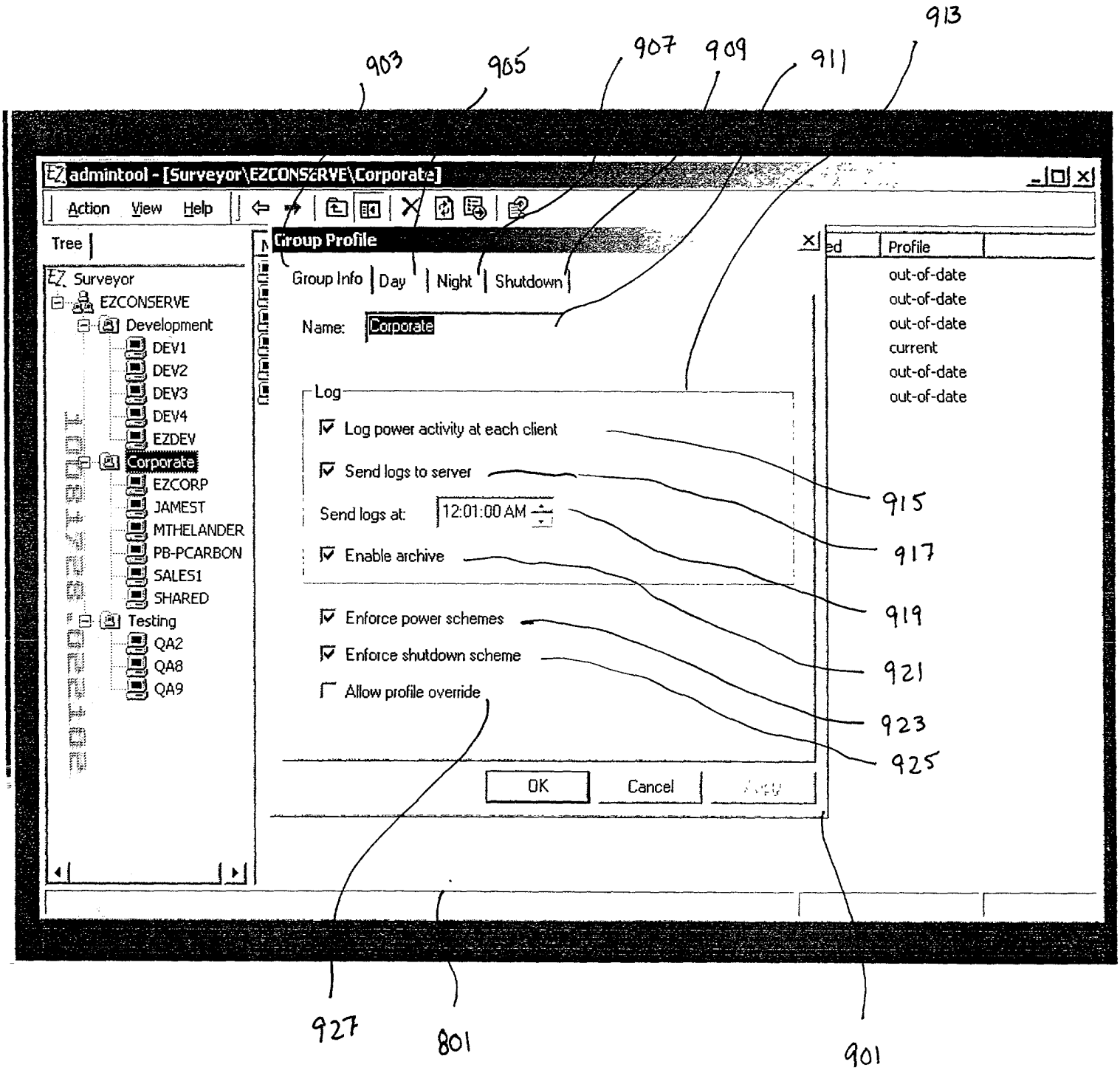
admintool - [Surveyor\EZCONSERVE\Corporate]
Action View Help
Tree
Surveyor
EZCONSERVE
Development
DEV1
DEV2
DEV3
DEV4
EZDEV
Corporate
EZCORP
JAMEST
MTHELANDER
PB-PCARBON
SALES1
SHARED
Testing
QA2
QA8
QA9
Group Profile
Group Info
Day
Night
Shutdown
Name:
Corporate
Log
Log power activity at each client
Send logs to server
Send logs at:
12:01:00 AM
Enable archive
Enforce power schemes
Enforce shutdown scheme
Allow profile override
OK
Cancel
Profile
out-of-date
out-of-date
out-of-date
current
out-of-date
out-of-date
903
905
907
909
911
913
915
917
919
921
923
925
927
801
901

FIG. 9

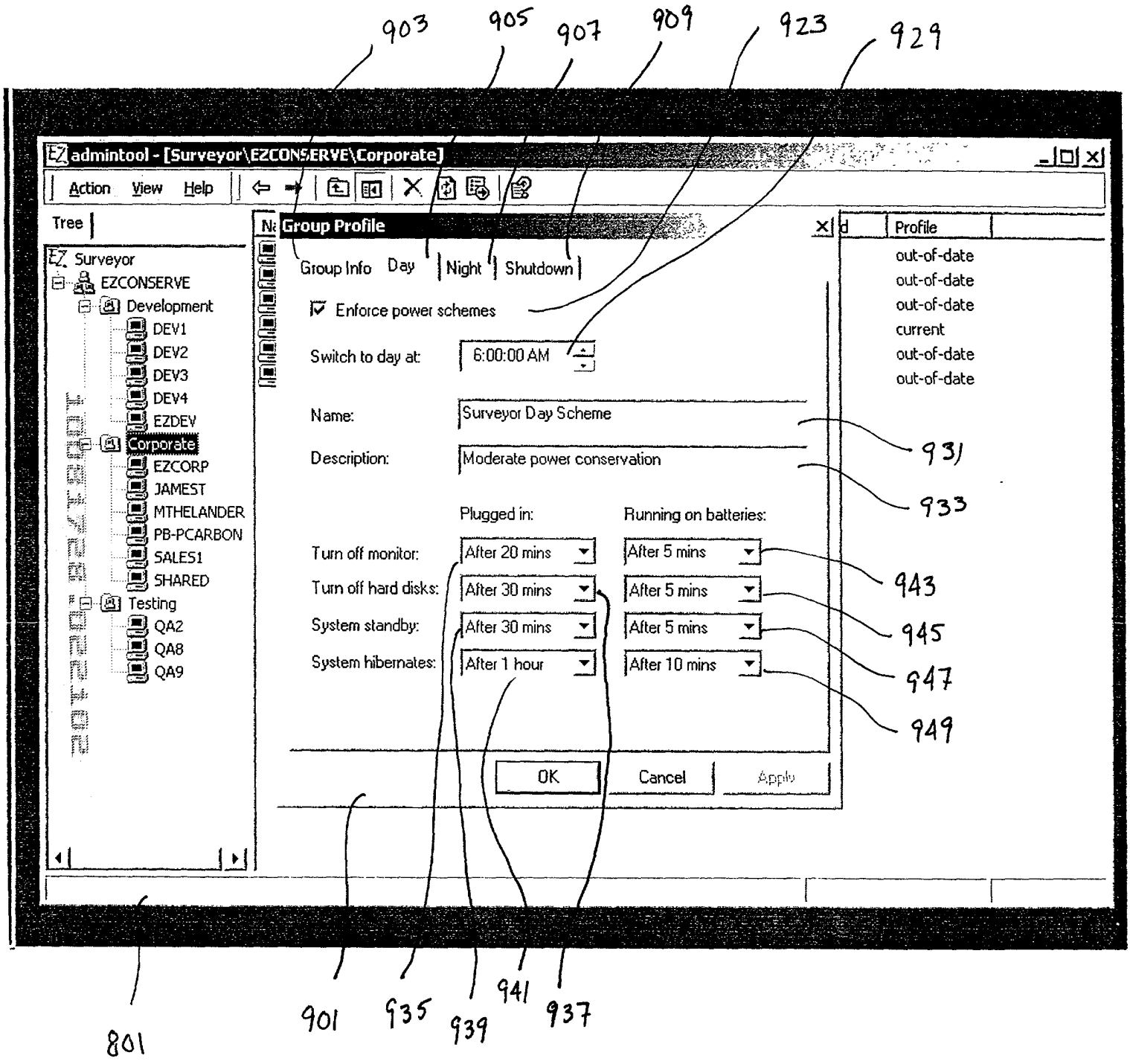
903
905
907
909
923
929
admintool - [Surveyor\EZCONSERVE\Corporate]
Action View Help
Tree
Surveyor
EZCONSERVE
Development
DEV1
DEV2
DEV3
DEV4
EZDEV
Corporate
EZCORP
JAMEST
MTHELANDER
PB-PCARBON
SALES1
SHARED
Testing
QA2
QA8
QA9
Group Profile
Group Info
Day
Night
Shutdown
Enforce power schemes
Switch to day at:
6:00:00 AM
Name:
Surveyor Day Scheme
Description:
Moderate power conservation
Plugged in:
Running on batteries:
Turn off monitor:
After 20 mins
After 5 mins
Turn off hard disks:
After 30 mins
After 5 mins
System standby:
After 30 mins
After 5 mins
System hibernates:
After 1 hour
After 10 mins
OK
Cancel
Apply
Profile
out-of-date
out-of-date
out-of-date
current
out-of-date
out-of-date
931
933
943
945
947
949
801
901
935
939
941
937

FIG. 10

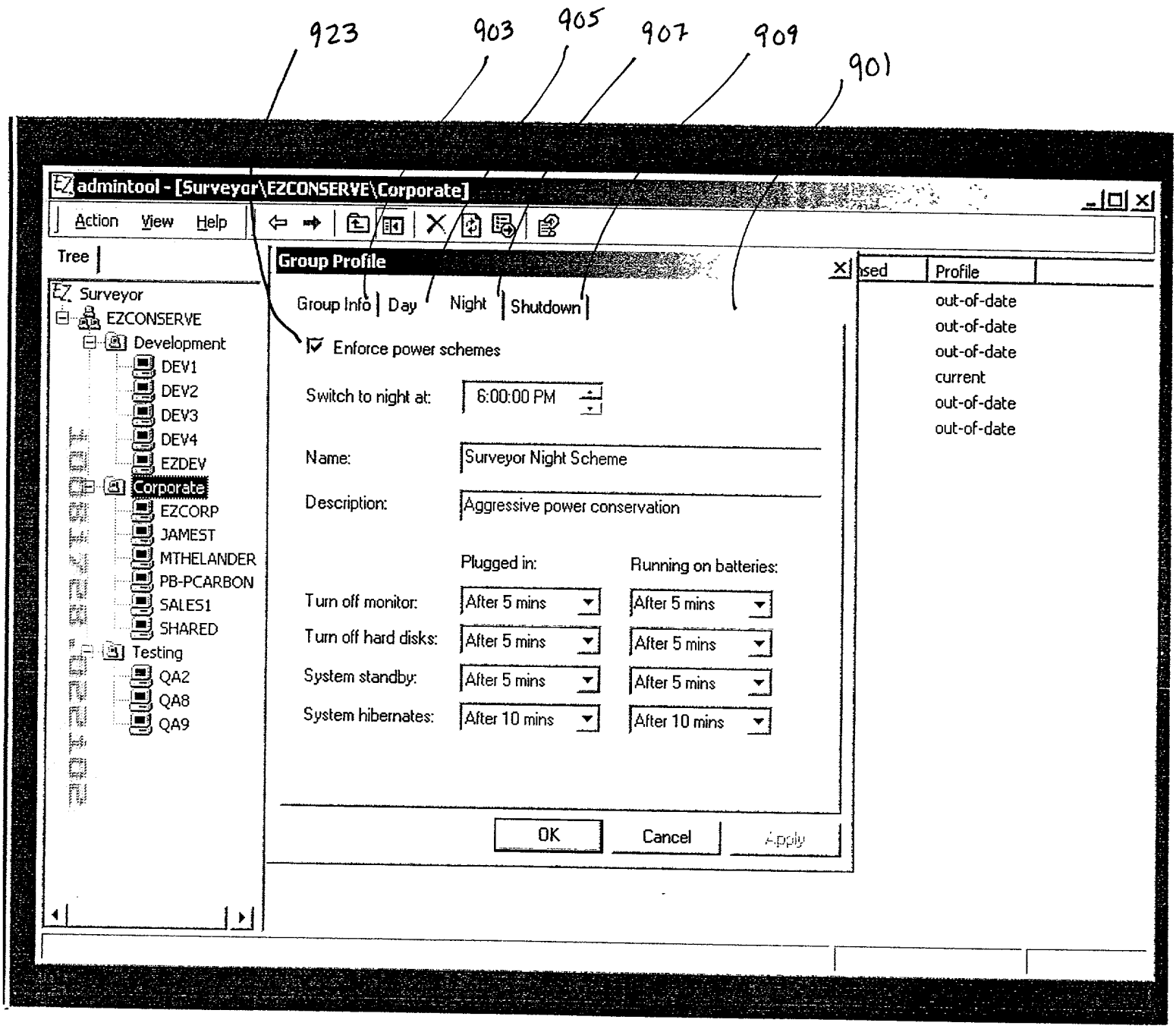
923
903
905
907
909
901
admintool - [Surveyor\EZCONSERVE\Corporate]
Action
View
Help
Tree
Surveyor
EZCONSERVE
Development
DEV1
DEV2
DEV3
DEV4
EZDEV
Corporate
EZCORP
JAMEST
MTHELANDER
PB-PCARBON
SALES1
SHARED
Testing
QA2
QA8
QA9
Group Profile
Group Info
Day
Night
Shutdown
Enforce power schemes
Switch to night at:
6:00:00 PM
Name:
Surveyor Night Scheme
Description:
Aggressive power conservation
Plugged in:
Running on batteries:
Turn off monitor:
After 5 mins
After 5 mins
Turn off hard disks:
After 5 mins
After 5 mins
System standby:
After 5 mins
After 5 mins
System hibernates:
After 10 mins
After 10 mins
OK
Cancel
Apply
sed
Profile
out-of-date
out-of-date
out-of-date
current
out-of-date
out-of-date

FIG. 11

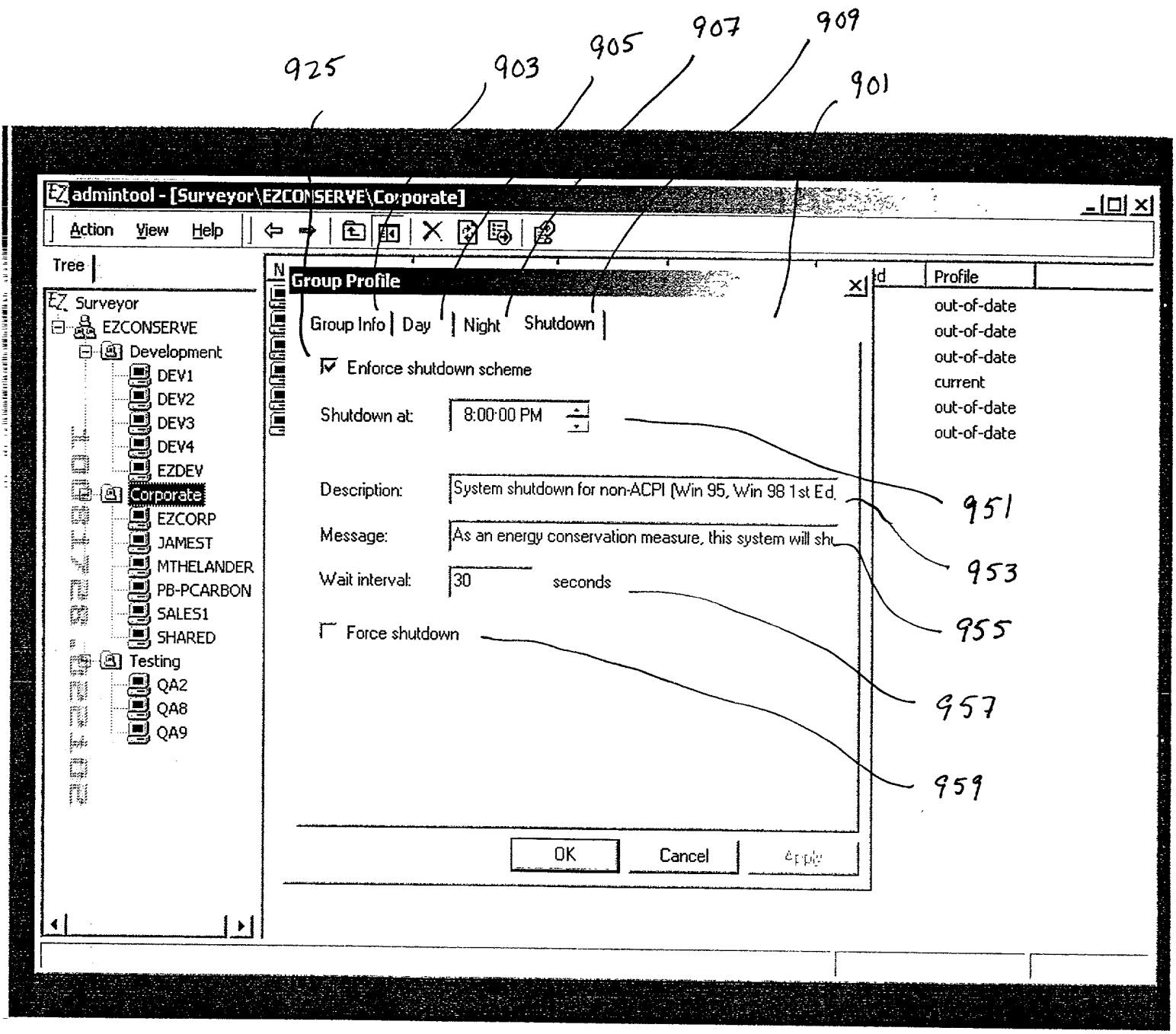
925
903
905
907
909
901
admintool - [Surveyor\EZCONSERVE\Corporate]
Action View Help
Tree
Surveyor
EZCONSERVE
Development
DEV1
DEV2
DEV3
DEV4
EZDEV
Corporate
EZCORP
JAMEST
MTHELANDER
PB-PCARBON
SALES1
SHARED
Testing
QA2
QA8
QA9
Group Profile
Group Info
Day
Night
Shutdown
Enforce shutdown scheme
Shutdown at:
8:00:00 PM
Description:
System shutdown for non-ACPI (Win 95, Win 98 1st Ed.
Message:
As an energy conservation measure, this system will sh
Wait interval:
30
seconds
Force shutdown
OK
Cancel
Profile
out-of-date
out-of-date
out-of-date
current
out-of-date
out-of-date
951
953
955
957
959

FIG. 12

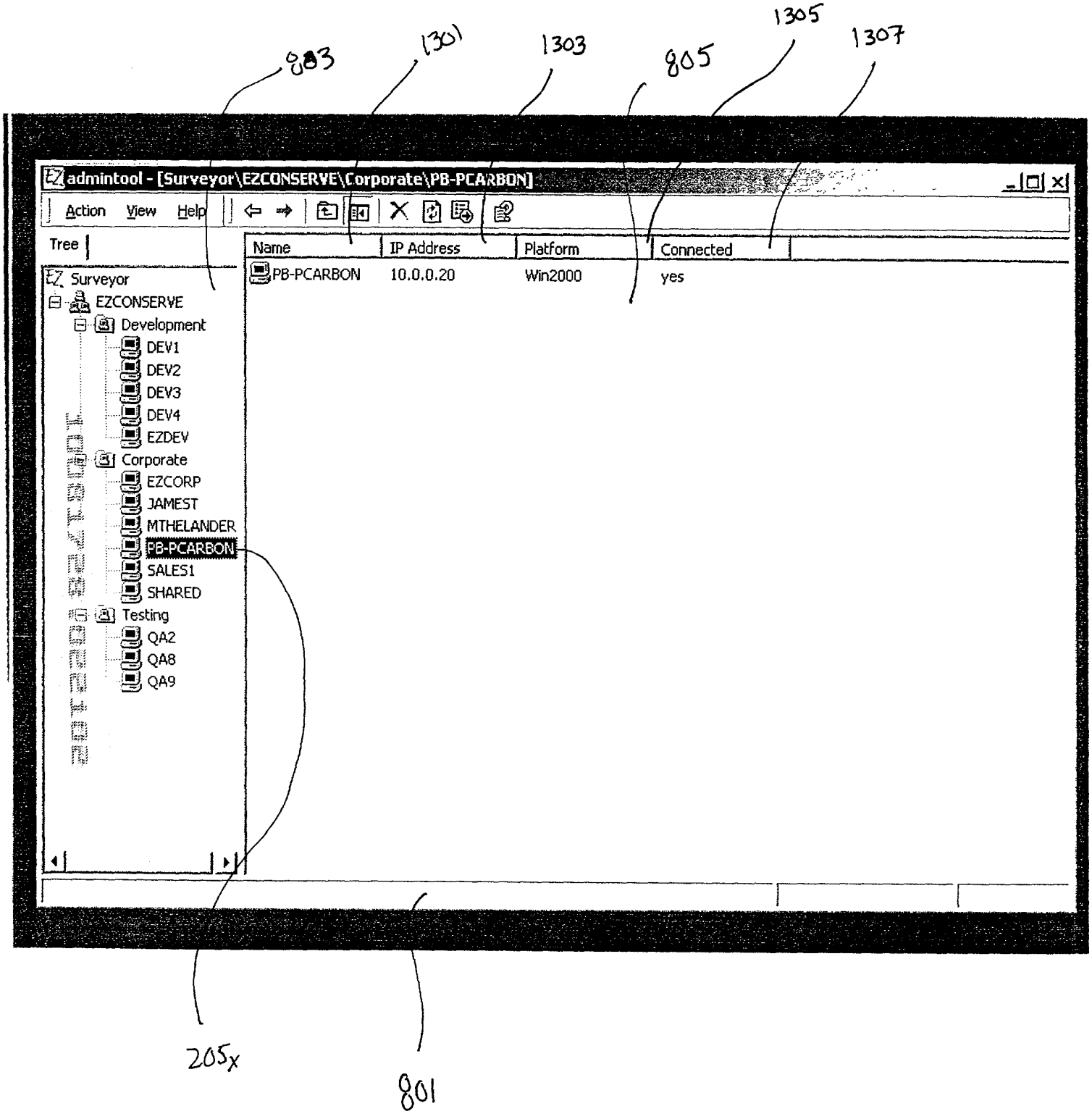
803
1301
1303
805
1305
1307
admintool - [Surveyor\EZCONSERVE\Corporate\PB-PCARBON]
Action View Help
Tree
Name
IP Address
Platform
Connected
PB-PCARBON
10.0.0.20
Win2000
yes
Surveyor
EZCONSERVE
Development
DEV1
DEV2
DEV3
DEV4
EZDEV
Corporate
EZCORP
JAMEST
MTHELANDER
PB-PCARBON
SALES1
SHARED
Testing
QA2
QA8
QA9
205x
801

FIG. 13

Instructions:

Surveyor allows you to capture, consolidate and roll up the energy consumption and cost savings data for each group on your network. An analysis of the cost savings can tell you how effective Surveyor is on your network and when your return on investment will be realized.

The roll-up data is gathered from each Surveyor client. It is important that you **DO NOT** remove or modify any of the details on the Rollup Data sheet.

Use the options below to modify your report variables, such as baseline date range and actual energy cost per kilowatt-hour.

1403

	On	Suspend	Off
Assumed Average Client Consumption:	80	12	0

1407

(enter Watts used by average client (CPU + Monitor) for each state) 1405

Assumed Average Electricity Rate ($/KWHr): 0.07

1409

Baseline Period **Startdate:** 1/1/2002 **Enddate:** 1/28/2002

Import Data

1401

FIG. 14

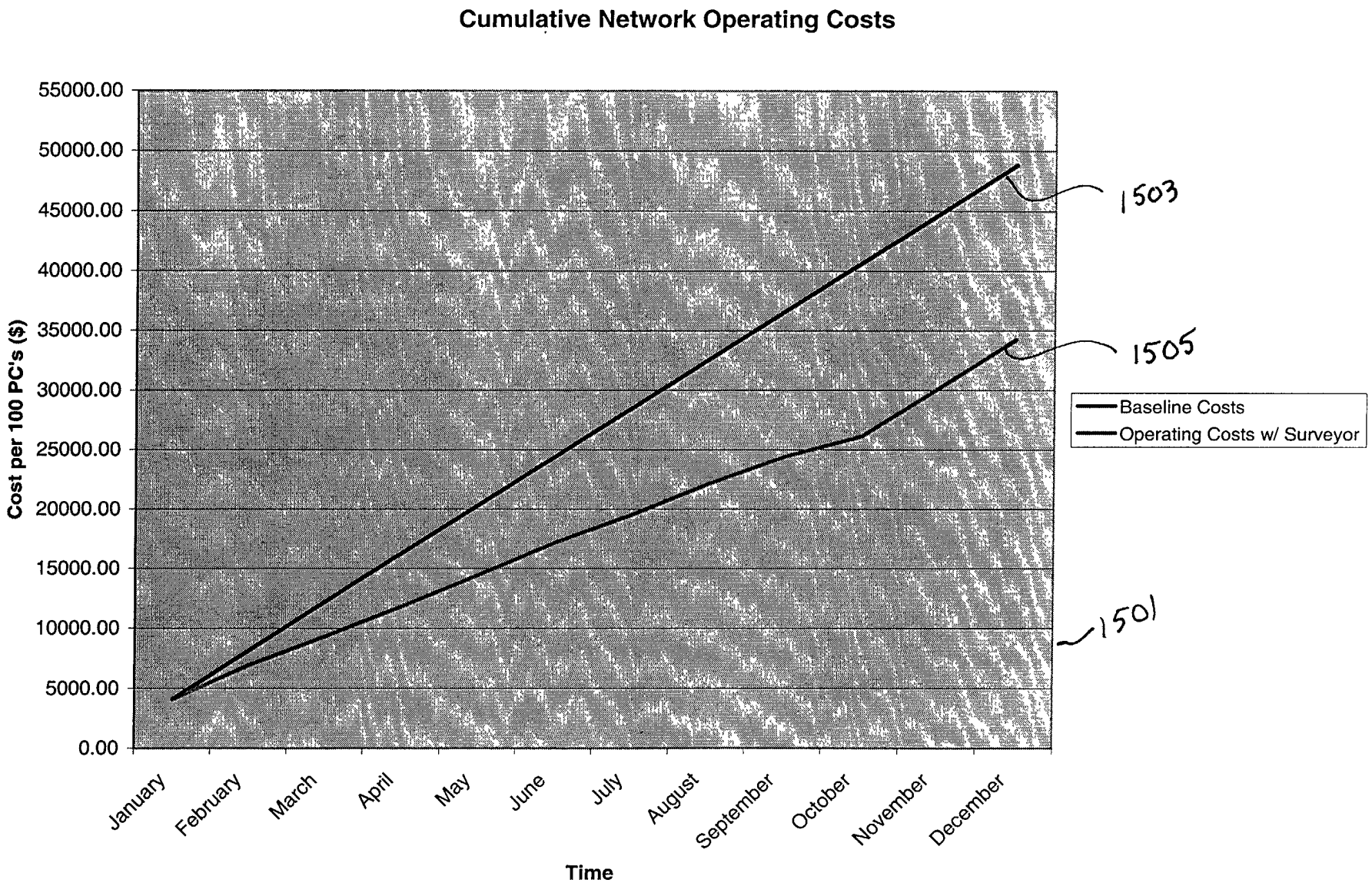
Cumulative Network Operating Costs
55000.00
50000.00
45000.00
40000.00
35000.00
30000.00
25000.00
20000.00
15000.00
10000.00
5000.00
0.00
Cost per 100 PC's ($)
January
February
March
April
May
June
July
August
September
October
November
December
Time
1503
1505
1501
Baseline Costs
Operating Costs w/ Surveyor

FIG. 15

Month	Power On	Power Suspend	Power Off	Cost	Day
January	1840	12	0	$ 0.13	1/2/2002
January	1840	12	0	$ 0.13	1/3/2002
January	1840	12	0	$ 0.13	1/4/2002
January	1840	0	0	$ 0.13	1/5/2002
January	1600	48	0	$ 0.12	1/6/2002
January	1840	12	0	$ 0.13	1/7/2002
January	720	144	0	$ 0.06	1/8/2002
January	1840	12	0	$ 0.13	1/9/2002
January	1840	12	0	$ 0.13	1/10/2002
January	320	240	0	$ 0.04	1/11/2002
January	480	216	0	$ 0.05	1/12/2002
January	1600	0	0	$ 0.11	1/13/2002
January	1520	60	0	$ 0.11	1/14/2002
January	400	180	0	$ 0.04	1/15/2002
January	1840	12	0	$ 0.13	1/16/2002
January	1840	12	0	$ 0.13	1/17/2002
January	1840	12	0	$ 0.13	1/18/2002
January	1840	12	0	$ 0.13	1/19/2002
January	1520	36	0	$ 0.11	1/20/2002
January	1520	24	0	$ 0.11	1/21/2002
January	1680	36	0	$ 0.12	1/22/2002
January	1840	12	0	$ 0.13	1/23/2002
January	1440	60	0	$ 0.11	1/24/2002
January	1840	0	0	$ 0.13	1/25/2002
January	1840	0	0	$ 0.13	1/26/2002
January	1600	48	0	$ 0.12	1/27/2002
February	560	192	0	$ 0.05	2/1/2002
February	1840	0	0	$ 0.13	2/2/2002
February	320	180	0	$ 0.04	2/3/2002
February	480	180	0	$ 0.05	2/4/2002
February	240	60	0	$ 0.02	2/5/2002
February	1680	12	0	$ 0.12	2/6/2002
February	320	108	0	$ 0.03	2/7/2002
February	1600	0	0	$ 0.11	2/8/2002
February	1440	12	0	$ 0.10	2/9/2002
February	1520	24	0	$ 0.11	2/10/2002
February	720	108	0	$ 0.06	2/11/2002
February	160	228	0	$ 0.03	2/12/2002
February	640	12	0	$ 0.05	2/13/2002

1601

FIG. 16

Docket No. 200313-0001

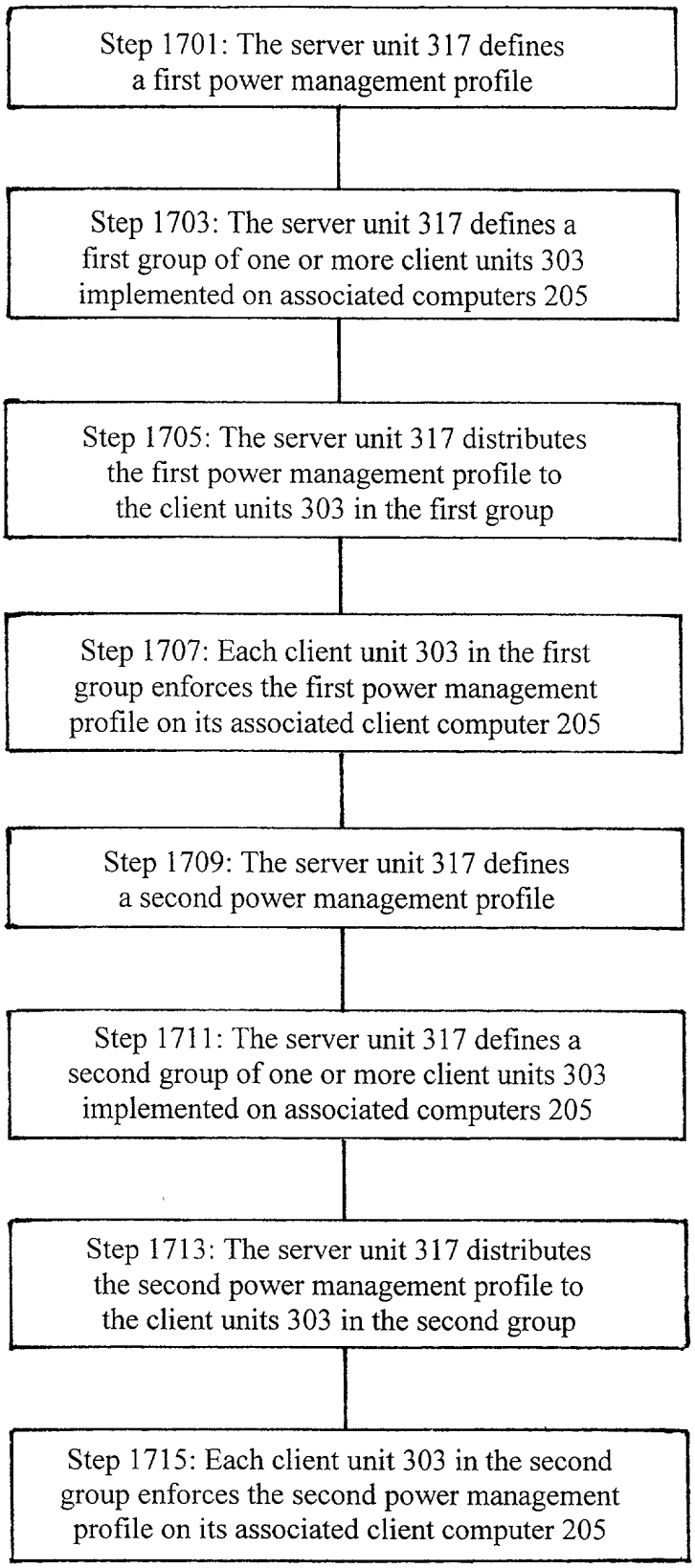

FIG. 17

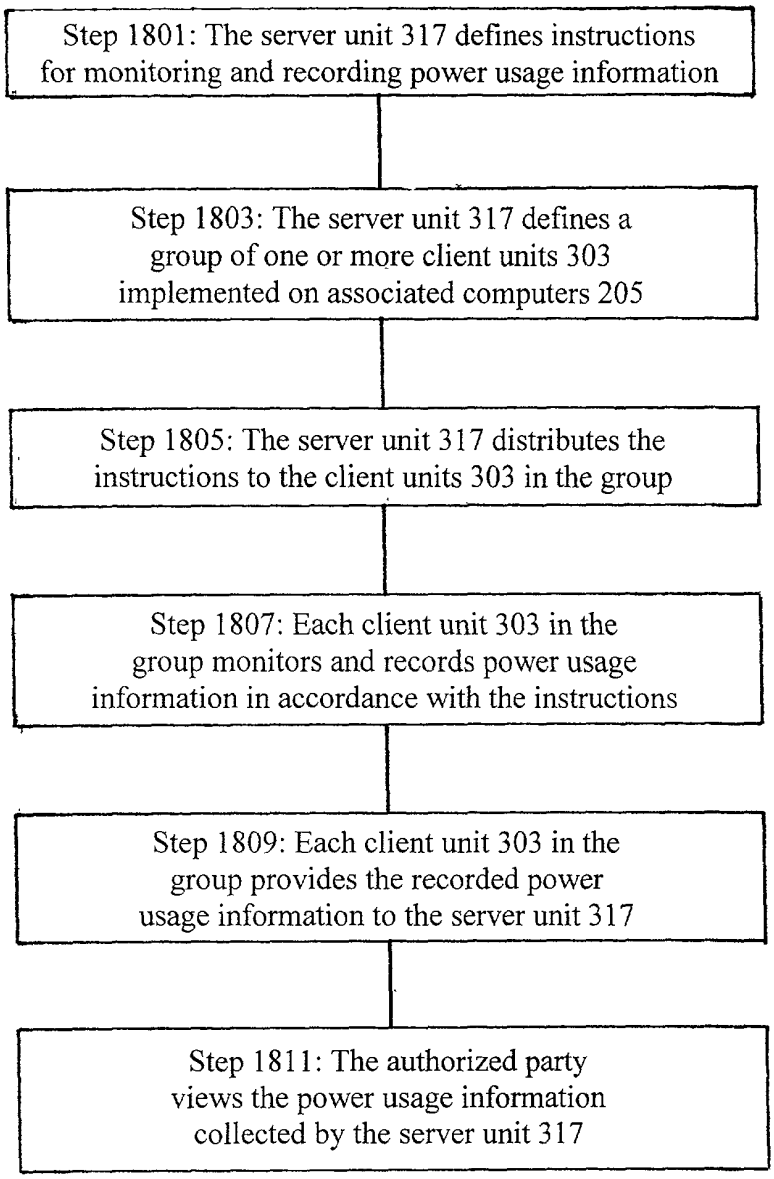
Step 1801: The server unit 317 defines instructions for monitoring and recording power usage information
Step 1803: The server unit 317 defines a group of one or more client units 303 implemented on associated computers 205
Step 1805: The server unit 317 distributes the instructions to the client units 303 in the group
Step 1807: Each client unit 303 in the group monitors and records power usage information in accordance with the instructions
Step 1809: Each client unit 303 in the group provides the recorded power usage information to the server unit 317
Step 1811: The authorized party views the power usage information collected by the server unit 317

FIG. 18